

CAPACITIVE LOAD DRIVE RECOVERY CIRCUIT, CAPACITIVE LOAD
DRIVE CIRCUIT AND PLASMA DISPLAY APPARATUS USING THE SAME

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ABSTRACT OF THE DISCLOSURE

10 In the capacitive load drive power supply circuit, a
transformer is used, either terminal of the primary coil
of the transformer and either terminal of the second coil
of the transformer are connected to an output terminal, a
first switch circuit is connected between the other
terminal of the primary coil and a first reference
15 potential, a second switch circuit is connected between
the other terminal of the secondary coil and a second
reference potential, and a power supply switch circuit is
connected between an output terminal and a drive power
supply. Due to the resonance between the capacitance of a
20 drive load and the primary coil of the transformer, the
electrostatic energy stored in the capacitance of the
drive load is converted into the electromagnetic energy
in the exciting inductance of the primary coil of the
transformer in as short a time as a quarter of the
25 resonance period.